

CEREBRUM | VERSION 1.12

PROTOCOL AND USER LIST



THIRD PARTY CONTROL PROTOCOLS

This document describes the support of third party protocols within the Axon Cerebrum application for the Router Control and Generic Device cost options.

ROUTER CONTROL PROTOCOLS

Manufacturer	Protocol	Products	Mnemonic upload	Ethernet	Serial
Axon	Snell SW-P-08	SynCross	No	Yes	No
Blackmagic	Videohub Ethernet Protocol v2.3	Videohub	Yes	Yes	No
Calrec	Snell SW-P-08	Hydra2	Yes	Yes	No
Evertz	Quartz RCP-01	SC-1000, Topaz, Q16-256, Xenon, EQX, Magnum	Yes	Yes	Yes
Grass Valley	ES Switch	Jupiter controller	Yes	Yes	Yes
Grass Valley	Jupiter ASCII	Jupiter controller	No	No	Yes
Grass Valley	Native	SMS7000, Encore, Prelude, Concerto	Yes	Yes	Yes
Harris	Leitch pass-through	Panacea, Integrator, Platinum	No	No	Yes
Harris	LRC	Platinum, IP3, Magellan	Yes	Yes	No
Nevion	V128	VikinX	No	Yes	Yes
NTP	Dot	NTP Routers	No	Yes	Yes
GV/Miranda	Nvision Compact Router	Nvision Compact Routers	No	Yes	No
GV/Miranda	Nvision NV9000	Nvision NV9000 controller	Yes	Yes	No
GV/Miranda	Nvision Router Control Protocol	Nvision 5128, 7512, 8256	No	Yes	No
Pesa	P1	PERC2000, 3500PRO	No	No	Yes
Pesa	P1N	PERC2000, 3500PRO	No	Yes	No
Ross	NK ASCII	NK	No	No	Yes
Snell	Pro-bel SW-P-02	Pyxis,	No	Yes	Yes
Snell	Pro-bel SW-P-08	Aurora	Yes	No	Yes
Sony	Cart/+/++	IXS-6700	No	No	Yes
Stagetec	Nexus UDP	Nexus	No	Yes	No
Stagetec	Nexus V5	Nexus	No	No	Yes
Studer	Snell SW-P-02	Studer OnAir, Vista	No	No	Yes
Studer	Snell SW-P-08	Studer OnAir, Vista	No	Yes	Yes
Utah	RCP-1	SC-4 System Controller	No	Yes	Yes
Utah	RCP-3	SC-4 system Controller UDS routers	Yes	Yes	Yes

GENERIC DEVICE PROTOCOLS

Manufacturer	Protocol	Points	Products	Description	Ethernet	Serial
-	ICMP	0	Any network device	Network presence	Yes	No
-	Raw UDP/TCP/Serial	1	Any device	Basic comms.	Yes	Yes
-	BACNet	5		Building Automation and Control	Yes	No
Adder AIM	AIM API	5	Adderlink Infinity Manager	Routing and Presets	Yes	No
Allen and Heath	iLive TCP/IP	5	iLive	Control	Yes	No
Art-Net	Art-Net	2	LSC NXS1	DMX512 lighting control	Yes	No
Axon	Axon CCP	0	CGP-4848	GPI/O unit	Yes	No
Blackmagic	HyperDeck	5	HyperDeck	Control	Yes	No
ClearCom	HCI protocol	10	Eclipse	Intercom	Yes	No
DHD	ECP	5		Routing		
ETC	String based Protocol	5	Paradigm	Lighting control	Yes	No
ETC	EOS Family Show	5	EOS	Lighting control	Yes	No
Evertz	Symphony	5	MVP,VIP	Multiviewer control	Yes	No
For-A	HVS-TALLY	2	HVS/Hanabi	Switcher Tally	No	Yes
For-A	Sony DVS	5	HVS/Hanabi	Editor protocol	No	Yes
Gigawave	Gigawave DCP	2	Bosch Metal Mickey Camera	Camera Control	No	Yes
Grass Valley	GVG-100	5		Editor protocol	No	Yes
Grass Valley	Advanced Media Protocol (AMP)	5	K2 Servers	Server Control	Yes	No
Grass Valley	M-2100 Automation	5	M-2100	Control	No	Yes
Grass Valley	M-2100 Tally	5	M-2100	Tally	No	Yes
Grass Valley	DD35-Net	5	Kayak	Control and Tally	Yes	No
Grass Valley	ACOS	5	Kayak	Tally	Yes	Yes
Grass Valley	GV Serial Tally	5	Kalypso, Zodiac	Serial Tally	No	Yes
Grass Valley	GV Editor	5	Kalypso, Zodiac	Control	No	Yes
Grass Valley (Miranda)	Kaleido	2	Kaleido M/V's	UMD, Tally and Layout	Yes	No
Grass Valley	Kayenne Contribution Tally	5	Kayenne	Serial Tally	No	Yes
Grass Valley	K-Frame Tally	5	Kayenne, Karrera	Tally only	Yes	No
Guntermann & Drunk	CatCenter NEO	5	CatCenter NEO	KVM routing	Yes	No

GENERIC DEVICE PROTOCOLS (CONTINUED)

Manufacturer	Protocol	Points	Products	Description	Ethernet	Serial
Image Video	Image Video UMD	2	Image Video UMD's	UMD/Tally	No	Yes
Imagine Communications	VDCP	5	Servers	Server transport control	Yes	Yes
JLCooper	eBox	2	eBox	GPIO in/out	Yes	No
JLCooper	FaderMaster	2	FaderMaster 4/100 and 8/100	Control Surface	No	Yes
JVC	PS-4XX monitor	1	JVC ProVerite PS-420W, 470W monitor	Power/Input Selection	No	Yes
JVC	GM-5XX monitor	1	JVC GM-552, DTVxxG monitors	Power/Input Selection	No	Yes
Lawo	Remote MNOPL	5	MC2	Audio Console Routing	Yes	No
Lawo	Ember+	5	V Pro 8	Routing and settings	Yes	No
NEC	External Control P Series	1	P series Monitors	Power/Input Selection	No	Yes
Panasonic	HD Integrated Camera interface	5	AW-HE60, 120 cameras	PTZ control	Yes	No
Penta	RCP-1806	1	HD2LinePro	Tally/UMD	Yes	No
Pro-Bel	SW-P-06	5	Pro-bel BPS hardware panels	Hardware panel control	No	Yes
Pro-Bel	SW-P15	2	Serial Cues	Bi-directional Tally	Yes	Yes
Pro-Bel	SW-P-100	5	Automation	Scheduled event notification	Yes	No
RGB Spectrum	Mediawall 1900	1	Mediawall 1900	Control	Yes	No
Riedel	RRCS	10	Artist	Control	Yes	No
Riedel	Ember+	5	MediorNet	Control	Yes	No
Riedel	Connect Trio Command	5	Connect Trio	ISDN Control	Yes	No
Ross	Contribution Tally	5	Acuity, Carbonite	Switcher Tally	Yes	Yes
Ross	GVG-100	5	Acuity, Carbonite	Editor protocol	No	Yes
RTS/Telex	AZEdit	10	RTS Cronus, Zeus, Adam	Intercom control	Yes	No
Shotoku	T Computer Automation Remote Control	5	TR-XT	Remote Camera control	Yes	No
Snell	Kahuna K360 Tally Protocol	5	Snell Kahuna switcher	Tally only protocol	Yes	No
Snell	RollCall	10	IQ, Siruis Hybrid routers	Generic Snell protocol	Yes	No
Sony	9-pin	5	Blackmagic Hyperdeck, Sony BVS3000, etc	VTR transport control	No	Yes

Manufacturer	Protocol	Points	Products	Description	Ethernet	Serial
Sony	MVS X Serial Tally Protocol	5	MVS-7000X/8000X	Serial Tally	No	Yes
Sony	MVS Serial Tally Protocol	5	MVS-8000,DVS-9000 (DCU)	Serial Tally	No	Yes
Sony	MVS RS-422A Protocol	5	MVS-8000,DVS-9000 (Generic)	Serial Tally	No	Yes
Sony	VISCA	5	BRC H700, Z700	PTZ Camera control	No	Yes (multi-drop)
Sony	PVM-2541 Interface E	1	BVM/PVM Monitors	Monitor Power	Yes	No
TC Electronics	D22 Remote Control	1	D22 Broadcast Delay	Preset, Delay, bypass control	No	Yes
Trilogy	Ember+	5	Gemini Intercom	Intercom control	Yes	No
TSL/Axon	Bi-directional TSL UMD V3.1	2		Sharing of UMD/Tally	Yes	Yes
TSL	TSL UMD V3.1	2	TSL UMDs	UMD and tally	Yes	Yes
TSL	TSL UMD V5	2	TSL UMDs Harris Sx Pro UMDs	UMD and tally	Yes	No
Vutrix	Vutrix Network	1	Vutrix monitors	UMD/Tally input source	Yes	No

GENERIC DEVICE PROTOCOLS BY DEVICE TYPE

Audio mixers	Panels			
Allen and Heath iLive audio console	Pro-Bel Panel protocol SW-P-05/6 for BPS panels			
Lawo RemoteMNOPL (Audio crosspoint control)	JLCooper Fadermaster 4 or 8/100			
Studer OnAir 1500/3000 (Ember)				
Audio processing	Protocols			
Lawo V Pro 8	Ember/Ember+			
TC Electronics D22 Delay unit	ICMP for simple ping devices			
	'Raw' UDP/TCP/Serial for 'simple' devices			
Building management	Servers/VTRs			
BACnet	Blackmagic Hyperdeck			
Camera control	Grass Valley AMP			
Gigawave camera control protocol	Imagine VDCP protocol			
Panasonic Camera PTZ protocol	Sony 9 pin protocol			
Shotoku Remote Camera Control				
Sony VISCA Camera protocol	Switchers			
	For-A Hanabi tally and editor protocol			
GPIO	Grass Valley Kaleido remote control protocol			
Axon CGP-4848	Grass Valley K Frame Tally			
JLCooper eBox	Grass Valley M-2100 control and tally protocol			
ISDN/Codec	Grass Valley DD35-Net, ACOS, Karrera, Kayenne,			
Riedel Connect Trio protocol	Zodiak tally			
Intercom	Ross Vision Switchers (GV Serial contribution tally)			
Clearcom HCI protocol	Snell Kahuna			
Riedel Artist RRCS protocol	Sony MVS/DVS switcher tally/editor protocol			
RTS AZ Edit protocol				
Trilogy (Ember protocol)	UMD/Tally			
Interface control	Pro-Bel SW-P-15 Serial cue protocol			
Riedel Mediornet	Image Video UMD			
KVM switches	Tally link protocol (based on TSL V3.1)			
Adder Infinity KVM Switch AIM (routing/presets)	TSL UMD protocol V3.1, V4 and V5			
Guntermann & Drunck KVM Switch				
Lighting				
Art-Net (DMX512) lighting				
ETC EOS Lighting console				
Monitors				
JVC				
NEC				
Penta				
Sony BVM/PVM				
Vutrix				
Multiviewer control				
Evertz Symphony (multiviewer presets)				
GV/Miranda Kaleido (presets / UMD)				
RGB Spectrum Mediawall (Input)				

CEREBRUM USER LIST

Customer	Country	Customer	Country
Sky News Australia	Australia	Eurosport	France
Government of Bahrain, NSA	Bahrain	NDR	Germany
Cofely Fabricom	Belgium	Kerala Kaumudi	India
European Commission	Belgium	PT Media Television (Metro TV)	Indonesia
Imagineering TV	Belgium	TG4	Ireland
Kanakna Production TV	Belgium	Communications Video Engineering (CVE)	Italy
Videohouse	Belgium	LPR Productions SA	Italy
VRT	Belgium	NHK	Japan
Rede TV Globo	Brazil	Totsu International	Japan
Dolby LATAM	Brazil	Prezident teleradiokompleks	Kazakhstan
Line Up	Brazil	MBC (including Cgeong-ju, Jeon-ju, Ul-san, Po-hang)	Korea
Tribunal Superior o Trabalho	Brazil	Public TV Home Shopping	Korea
Chile Films	Chili	CNA	Luxemburg
A La Shan TV	China	Grass Valley Malaysia	Malaysia
Fujian TV	China	RTM	Malaysia
Fuzhou TV	China	Camera de Senadores	Mexico
Guangxi TV	China	Cepropie	Mexico
Haikou TV	China	El Financiero TV	Mexico
Hebei TV	China	ESPN Mexico	Mexico
Hefei TV	China	AA Media Group	Netherlands
Hunan TV	China	AVROTROS	Netherlands
Inner Mongolian TV Station	China	ChelloMedia	Netherlands
Jiangxi TV	China	D&MS	Netherlands
Lianing TV	China	DMC - Digital Media Center	Netherlands
Loftus Industries	China	Dutchview	Netherlands
PLA TV center	China	KLPD Dutch Police	Netherlands
Qinghai TV	China	MTV/VIMN	Netherlands
Shaanxi TV	China	NOS	Netherlands
Shanghai Canshuo Media Service	China	Omroep Zeeland	Netherlands
Shandong TV	China	SBS Broadcasting	Netherlands
Shijiazhuang TV	China	Stichting Regionale Radio Noord	Netherlands
Shuozhou TV Station	China	Stichting Regionale TV Noord	Netherlands
Sichuan Ganzhi TV	China	RTV Rijnmond	Netherlands
Sichuan TV	China	Tweede Kamer der Staten Generaal	Netherlands
Sunny Electronics	China	United Meercamera (Cinevideogroep)	Netherlands
Xinjiang TV	China	Viditech	Netherlands
Xiamen weather Bureau	China	Television New Zealand (TVNZ)	New Zealand
Yinchuang	China	TV 2	Norway
Government Ministerio de Educacion	Ecuador	MOI Oman	Oman
YLE (Finnish TV)	Finland		
ALP	France		

CEREBRUM USER LIST (CONTINUED)

Customer	Country	Customer	Country
Andina de Radiodifusión S.A.C. (ATV)	Peru	Input Media	United Kingdom
Canal Plus Cyfrowy	Poland	ITV Plc	United Kingdom
Telewizja Polsat	Poland	MTV Europe	United Kingdom
TVP	Poland	News UK & Ireland	United Kingdom
Sociedade Independente de Comunicacao, S.A.	Portugal	Perform Media Services	United Kingdom
Academy	Russia	Red Bee Media	United Kingdom
Eurovision	Singapore	SSVC	United Kingdom
Mediacorp	Singapore	S4C	United Kingdom
PTL	Singapore	Timeline Television	United Kingdom
Starhub	Singapore	TSL Television Systems Ltd	United Kingdom
e.TV	South Africa	Ultra Electronics Audio Soft	United Kingdom
Inala Broadcast	South Africa	Viasat Broadcasting UK	United Kingdom
SABC	South Africa	QNET	Vietnam
Sasani Studios	South Africa		
Canal Sur	Spain		
Telefónica de Espana	Spain		
Sony Sverige	Sweden		
SVT (Swedish Television)	Sweden		
Channel 3 Thailand	Thailand		
MCOT	Thailand		
The Government Public Relations Department	Thailand		
Ozkan Productions	Turkey		
TRT	Turkey		
MBC FZ LLC	UAE		
Sony Professional Solutions	UAE		
Arqiva OB's	United Kingdom		
ATOS IT services	United Kingdom		
BBC	United Kingdom		
Bellinghat Systems	United Kingdom		
Bloomberg Multimedia	United Kingdom		
Broadcast Networks	United Kingdom		
BSKYB British Sky Broadcasting	United Kingdom		
BT Broadcast Services	United Kingdom		
CBS News Broadcast Centre Europe	United Kingdom		
CTV Outside Broadcast	United Kingdom		
Ericsson Broadcast Services	United Kingdom		
Formula One	United Kingdom		
Gearhouse	United Kingdom		
IMG Media	United Kingdom		

CTV OUTSIDE BROADCASTS - OB11:



ARQIVA PLAYOUT STUDIOS FELTHAM:



DUTCH PARLIAMENT:





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